08120-2851US60

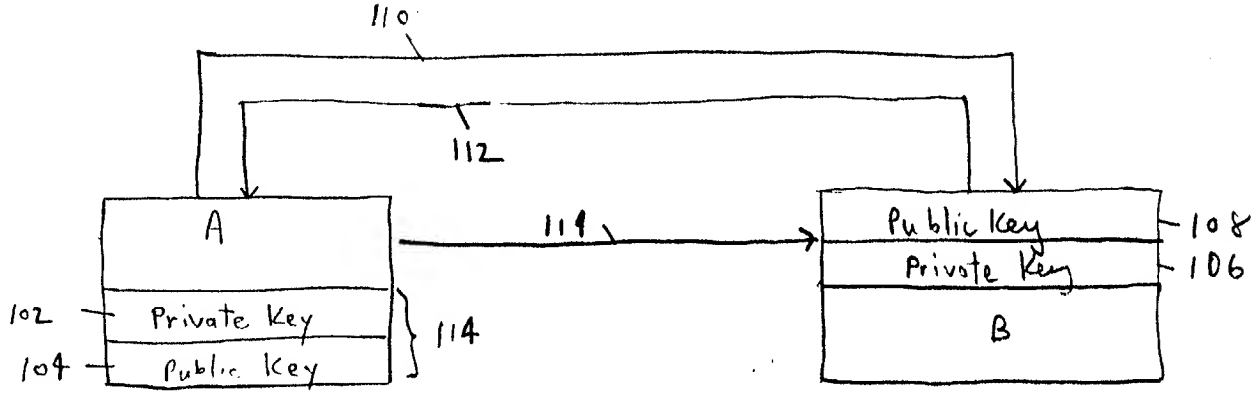

FIG. 1A

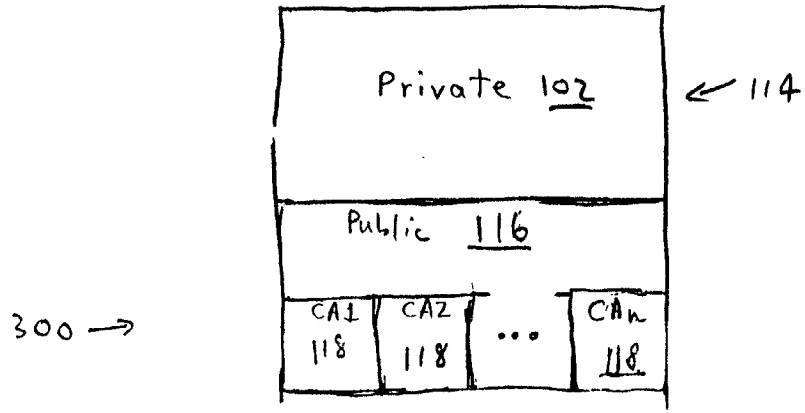

FIG. 1B

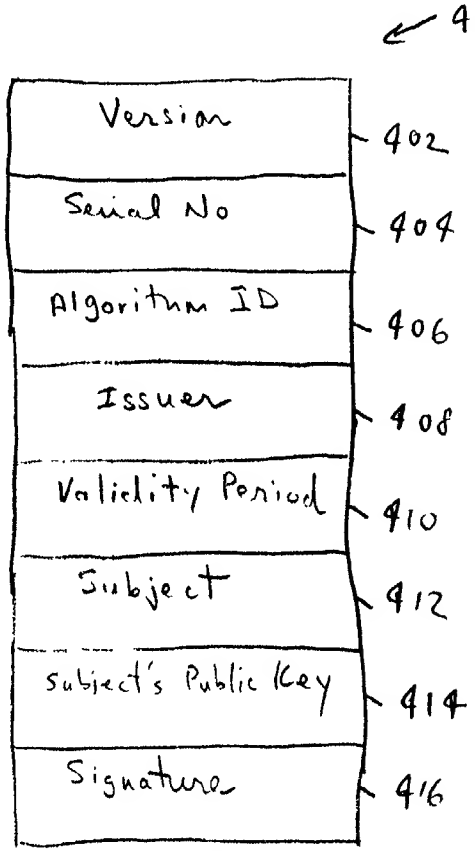

FIG. 4

0072271 "28994260

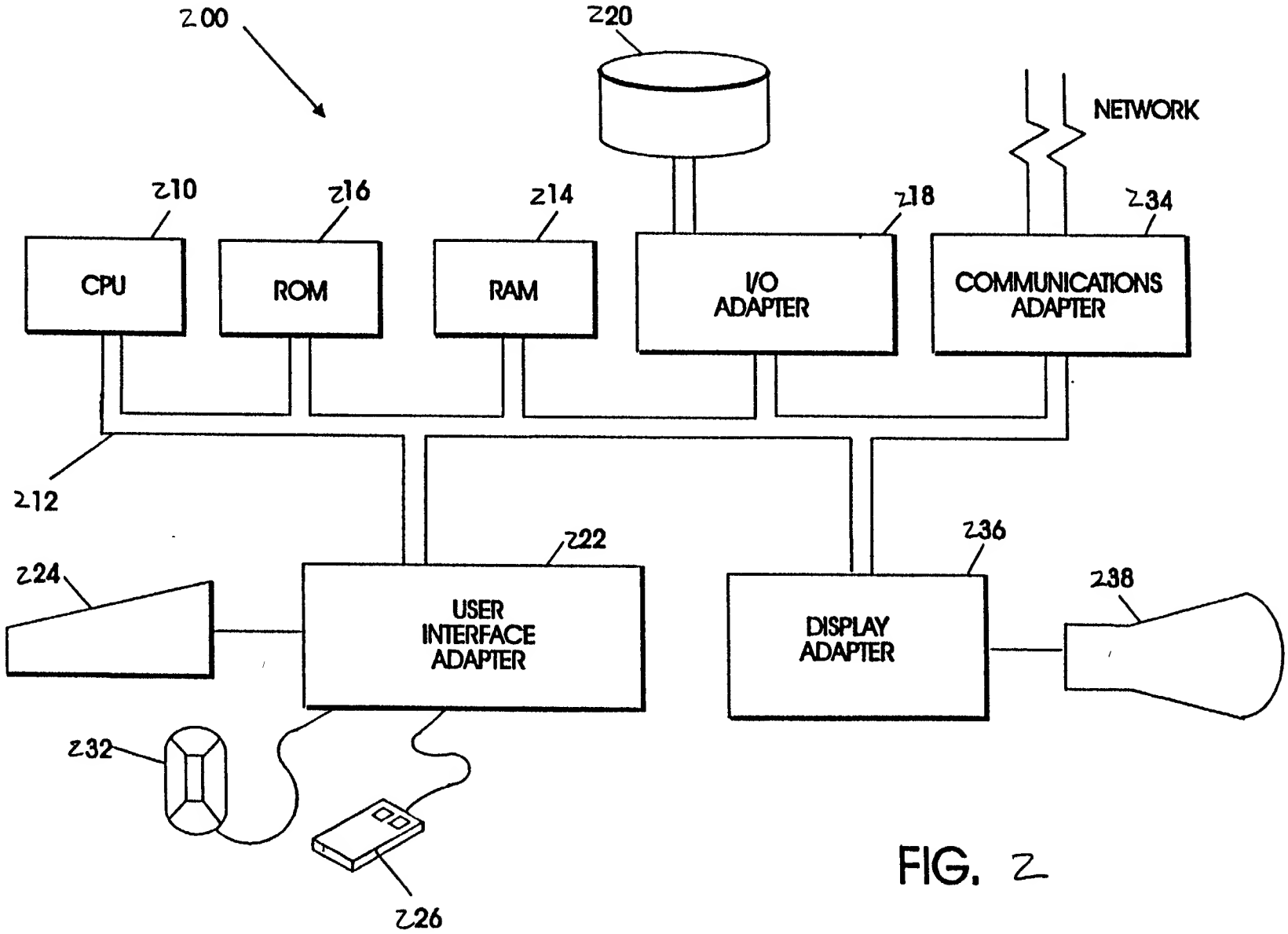

FIG. 2

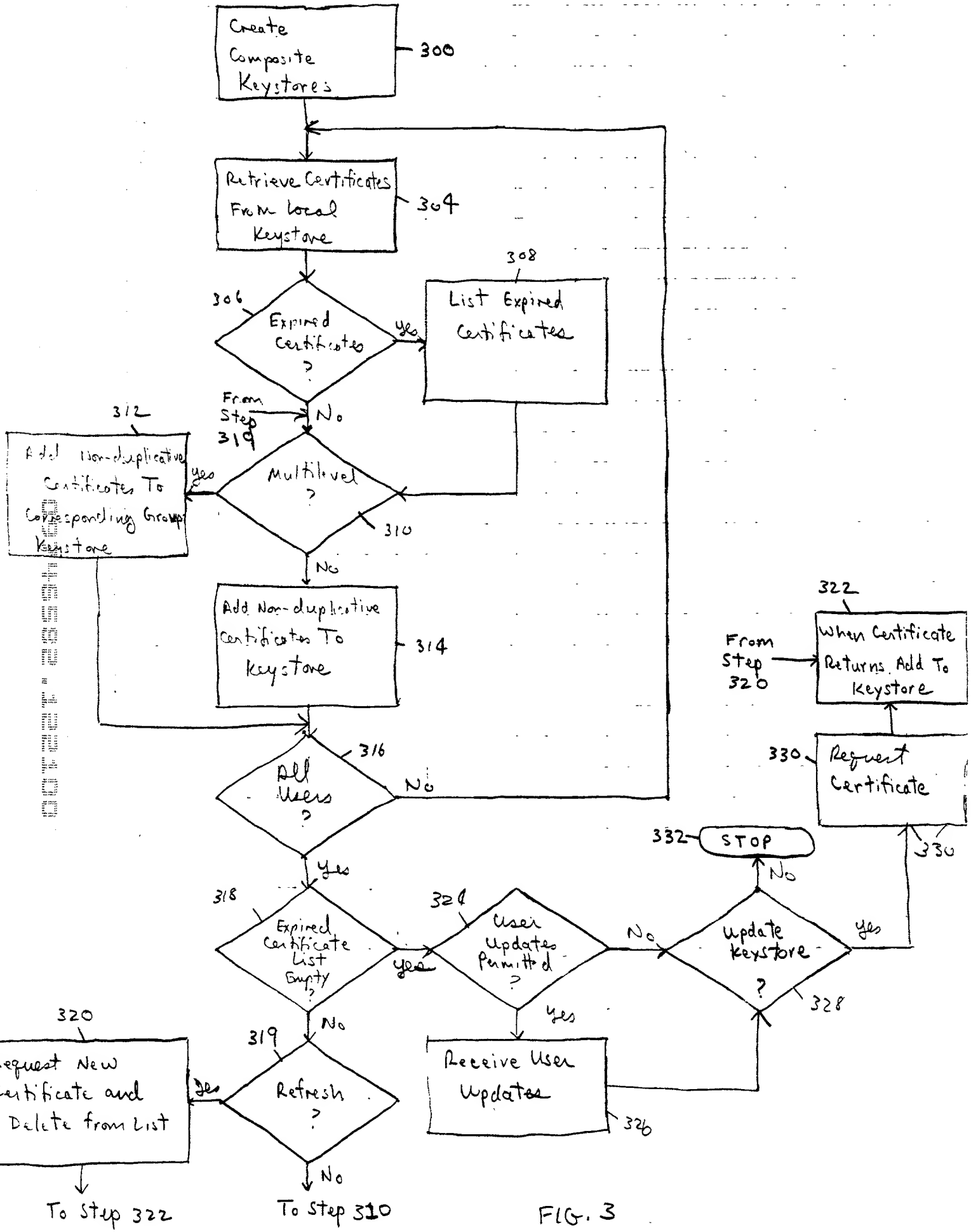
Create Composite Keystores
300
Retrieve Certificates From local Keystore
304
Expired Certificates ?
306
Yes
List Expired Certificates
308
From Step 319
No
Multilevel ?
310
Yes
Add Non-duplicative Certificates To Corresponding Group Keystore
312
No
Add Non-duplicative certificates To Keystore
314
All Users ?
316
No
Yes
Expired Certificate List Empty ?
318
Yes
User Updates Permitted ?
321
No
Update keystore ?
328
Yes
No
STOP
332
Request Certificate
330
When Certificate Returns Add To Keystore
322
From Step 320
No
Refresh ?
319
Yes
Request New Certificate and Delete from List
320
Yes
Receive User Updates
326
To Step 322
To Step 310

FIG. 3

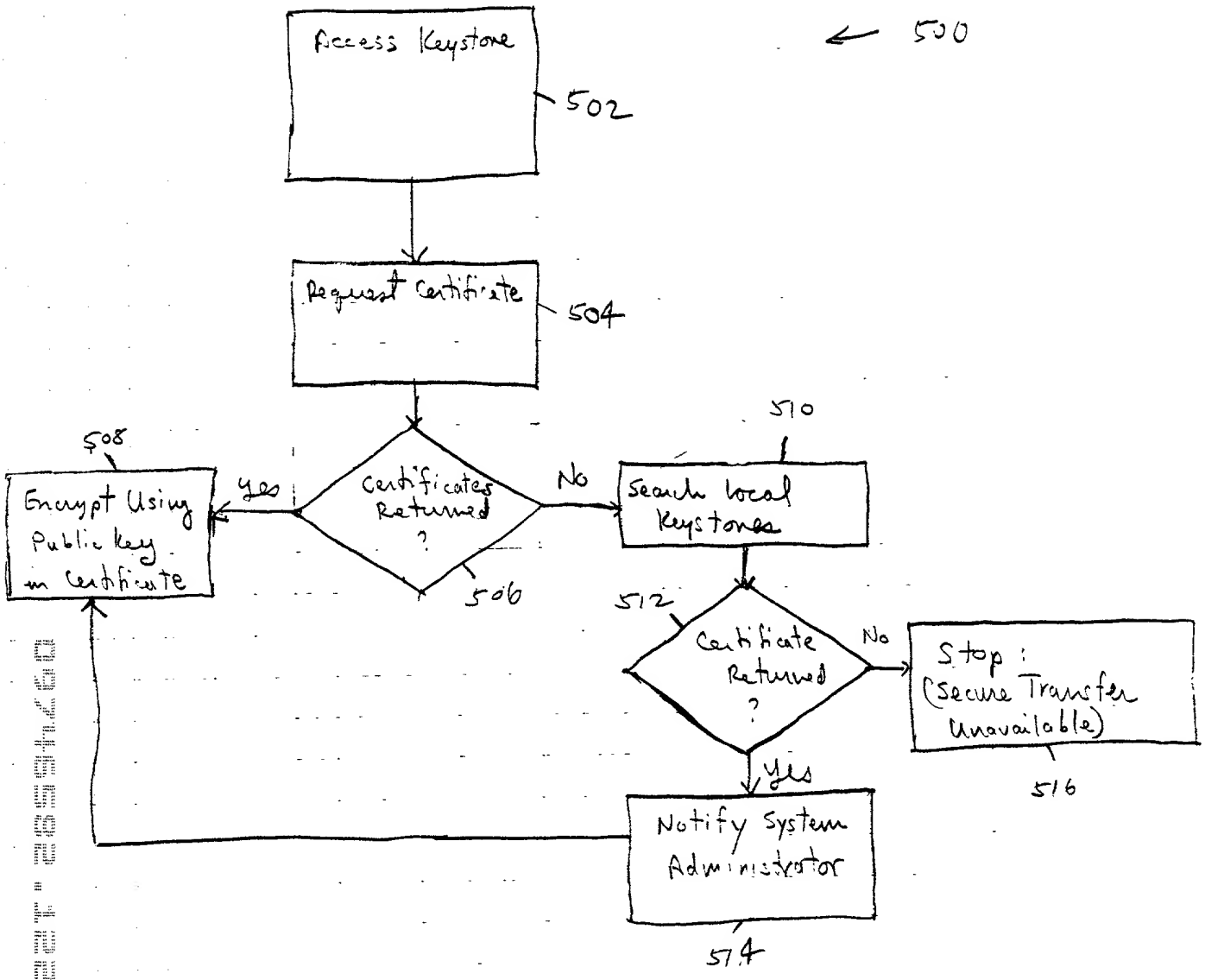
500
Access Keystore
502
Request Certificate
504
Certificates Returned ?
506
Yes
No
508
Encrypt Using Public key in certificate
510
Search local Keystores
512
Certificate Returned ?
No
Stop : (Secure Transfer Unavailable)
516
Yes
Notify System Administrator
514

FIG. 5

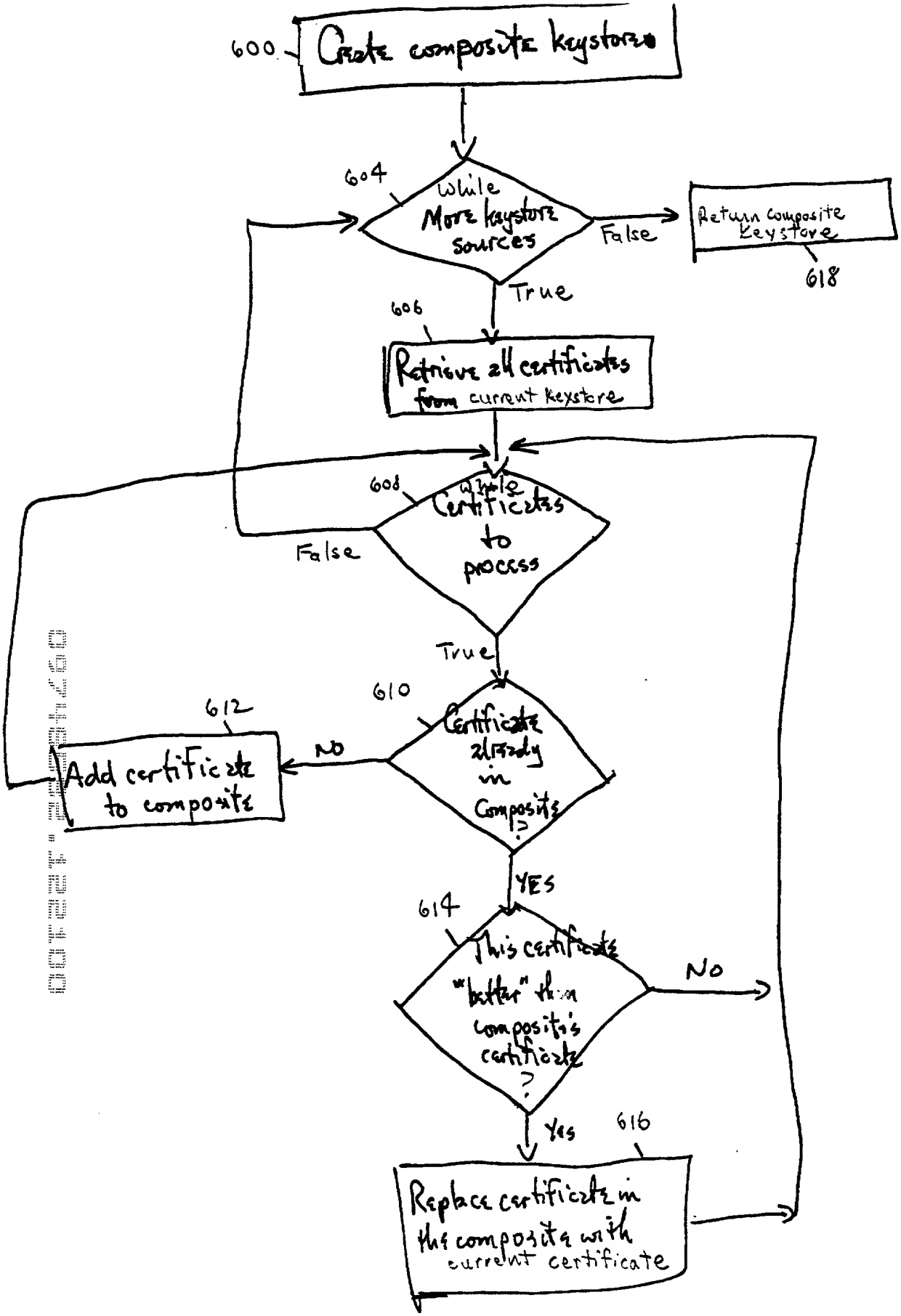
600
Create composite keystore
604
While More keystore sources
False
Return Composite Keystore
618
True
606
Retrieve all certificates from current keystore
608
While Certificates to process
False
True
610
Certificate already in Composite?
612
NO
Add certificate to composite
YES
614
This certificate "better" than composite's certificate?
No
Yes
616
Replace certificate in the composite with current certificate

FIG. 6